BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of the work: **Improvements to Roads, Construction of Culvert and Asphalting to Singapura Paradise Main Road and Cross Roads in Ward No. 11 (Kuvempunagara), Vidyaranyapura Sub Division.**

								Estimate Cost:	2000000.00
Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
1	KSRRB 300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications MORTH chapter 3. **Page No. 150/ Item No. 19.1/ PWD SR 2012-13**	Cum							
	Desilting of Drains								
	1st Main Road		2	160.00	0.45	0.30	43.20		
	2nd Main Road		2	95.00	0.45	0.30	25.65		
	Cross Roads		2	80.00	0.45	0.30	21.60		
			2	75.00	0.45	0.35	23.63		
			2	85.00	0.45	0.30	22.95		
	Dhobi Ghat Road		2	150.00	0.45	0.30	40.50		
	Cross Road		2	60.00	0.45	0.35	18.90		
	Berm Cutting								
	1st Main Road		2	160.00	0.90	0.30	86.40		
	2nd Main Road		2	95.00	0.90	0.30	51.30		
	Cross Roads		2	80.00	0.90	0.30	43.20		
			2	75.00	0.90	0.30	40.50		
			2	85.00	0.90	0.35	53.55		
	Dhobi Ghat Road		2	150.00	0.90	0.30	81.00		
	Cross Road		2	60.00	0.90	0.30	32.40		
	For Culvert		2	6.00	1.80	1.05	22.68		
							607.46	58.32	**35427.00**
	Basic Rate	54.00							
	Area Weightage @8%	4.32							
	Total	**58.32**							
2	Removing B.S. Slab Drain and stacking **(P.28/I.5.32 PWD SR - 2012-13)**	Sqm							
			2	65.00		1.35	175.50		
			2	40.00		1.35	108.00		
			2	45.00		1.35	121.50		
			2	40.00		1.35	108.00		
			2	40.00		1.35	108.00		
			2	55.00		1.35	148.50		
							769.50	44.47	**34223.00** 34220
	Basic Rate	41.18							
	Area Weightage @8%	3.29							
	Total	**44.47**							
3	Refixing stone slabs of drains and pointing in CM (1:3) **(P.28/I.5.33 PWD SR - 2012-13)**	Sqm							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
			Vide Item No.2				**769.50**	63.00	**48476.00**
	Basic Rate	58.33							48479
	Area Weightage @ 8%	4.67							
	Total	**63.00**							
4	KSRB 4-1.3 : Providing and laying in position plain cement concrete of **mix M7.5 with OPC cement @ 180 kgs with 40mm** and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregares @ 0.57 cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2. **No. 12/ Item No. 4.3/ PWD SR 2012-13**	Cum							
	Bottom Concrete		2	6.00	1.80	0.15	3.24		
							3.24	3812.82	**12354.00**
	Basic Rate	3597.00							
	Area Weightage @ 6%	215.82							
	Total	**3812.82**							
5	KSRB 5.2-2 : Providing and constructing granite / trap / basalt size stone masonry in **foundation with cement mortar 1:6**, stone hammered dressed in courses not less than 20 cms high, bond stones, at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 **PWD SR 2012-13 (P.25/I.5.6)**	Cum							
			2x2	6.00	0.60	0.90	12.96		
							12.96	2710.42	**35127.00**
	Basic Rate	2557.00							
	Area Weightage @ 6%	153.42							
	Total	**2710.42**							
6	KSRB 15.1.3: Providing ruled pointing to coursed stone masonry with cement mortar 1:3, 20 mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. **Page No. 120/ Item No. 15.3 / PWD SR 2012-13**	Sqm							
			2x2	6.00		0.90	21.60		
							21.60	70.28	**1518.00**
	Basic Rate	66.30							
	Area Weightage @ 6%	3.98							
	Total	**70.28**							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
7	KSRB 4-1.6 : Providing and laying in position plain cement concrete of **mix M15 with cement @ 240 kgs with 20mm** and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum, machine mixed, concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications, specification. No. KBS 4.1,4.2. **No. 12/ Item No. 4.6/ PWD SR 2012-13**	Cum							
			2x2	6.00	0.60	0.10	1.44		
							1.44	4327.98	**6232.00**
	Basic Rate	4083.00							
	Area Weightage @ 6%	244.98							
	Total	**4327.98**							
8	KSRB 4.2.2 : Providing and laying in position **reinforced cement concrete of design mix M20 with OPC cement @ 320 Kgs with 20mm** and down size graded granite metal coarse aggregates @ 0.878cum and fine aggregates @ 0.459 cum wuth superplastisier @ 3lts confirming to IS 9103-1999 reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works **in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, return walls, wall** (any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.6 **Page No. 13/ ITem No. 4.11 PWD SR - 2012-13**	Cum							
			2	6.00	1.80	0.23	4.97		
							4.97	5142.06	**25546.00**
	Basic Rate	4851.00							
	Area Weightage @ 6%	291.06							
	Total	**5142.06**							
9	KSRB 4.9.1: Providing **mild steel reinforcement for R.C.C** work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 **Page No. 19/ Item No. 4.45 PWD SR 2012-13**	Qntl							
	For Roof, @ 90 Kg / Cum		0.90	4.97			4.47		
							4.47	7690.30	**34385.00**

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	Basic Rate	7255.00							
	Area Weightage @ 6%	435.30							
	Total	**7690.30**							
10	KSRB 4-6.4: Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for **vertical surface** such as **walls at any thickness**, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 **Page No.17 / Item No. 4.31 PWD SR - 2012-13**	Sqm							
			2	6.00	0.60		7.20		
			4	1.80		0.25	1.80		
			4	6.00		0.25	6.00		
							15.00	244.08	**3661.00**
	Basic Rate	226.00							
	Area Weightage @ 8%	18.08							
	Total	**244.08**							
11	KSRRB 300-45: Scarifying stone metal crust 50mm to 100mm thick with pick axes along with premix carpet/surface dressing and stacking of old serviceable materials within a lead of 100 meters by manual means including cost of all labour charges complete as per specifications. MORTH chapter 3, **No. 156 / Item No. 19.51/ PWD SR 2012-13**	Sqm							
	1st Main Road		1	160.00	5.00		800.00		
	2nd Main Road		1	95.00	5.00		475.00		
	Cross Roads		1	80.00	5.00		400.00		
			1	75.00	5.00		375.00		
			1	85.00	5.00		425.00		
	Dhobi Ghat Road		1	150.00	5.00		750.00		
			1	60.00	5.00		300.00		
							3525.00	35.91	**126583.00**
	Basic Rate	33.25							
	Area Weightage @ 8%	2.66							
	Total	**35.91**							
2	Providing, laying, spreading and compacting graded stone aggregate to **wet mix macadam** specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications **(P.167/I.20.18) PWD SR - 2012-13.**	Cum							
	1st Main Road		1	160.00	5.50	0.15	132.00		
	2nd Main Road		1	95.00	5.50	0.15	78.38		
	Cross Roads		1	80.00	5.00	0.15	60.00		
			1	75.00	5.00	0.15	56.25		
			1	85.00	5.00	0.15	63.75		
	Dhobi Ghat Road		1	150.00	5.00	0.15	112.50		

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	Cross Road		1	60.00	6.00	0.15	54.00		
							556.88	1059.48	**589998.00**
	Basic Rate	981.00							
	Area Weightage @ 8%	78.48							
	Total	**1059.48**							
13	KSRRB 500-1.1 : Cleaning the existing WBM road surface including removing of binding materials and other foreign matter with wire bushes and small picks, sweeping with brooms or soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries, curing complete as per specifications. Specification No. 500-1.3 **(P.172 / I.21.1) PWDSR 2012-13**	Sqm							
	1st Main Road		1	160.00	5.50		880.00		
	2nd Main Road		1	95.00	5.50		522.50		
	Cross Roads		1	80.00	5.00		400.00		
			1	75.00	5.00		375.00		
			1	85.00	5.00		425.00		
	Dhobi Ghat Road		1	150.00	5.00		750.00		
	Cross Road		1	60.00	6.00		360.00		
							3712.50	9.29	**34482.00**
	Basic Rate	8.60							
	Area Weightage @ 8%	0.69							
	Total	**9.29**							
14	KSRRB M500-6: Providing and applying primer coat with bitumen emulsion on prepared surface of granular base including clearing of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications. MORTH specification NO. 502, **Page No. 172/ Item No. 21.6/ PWD SR 2012-13**	Sqm							
			Qty Vide Item No. 13				**3712.50**	39.64	**147149.00**
	Basic Rate	36.70							
	Area Weightage @ 8%	2.94							
	Total	**39.64**							
15	KSRRB M500-18: Providing and laying **semi dense bituminous concrete** 25mm thick with 100-120 TPH batch type HMP producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder at 4.5 to 5% of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem roller to achieve the desired compaction as per MORTH specifications clause No. 500.8 complete in all respects as per specifications. **With 80/100 grade bitumen, No. 175/ Item No. 21.20.1/ PWD SR 2012-13**	Cum							
	1st Main Road		1	160.00	5.50	0.025	22.00		

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	2nd Main Road		1	95.00	5.50	0.025	13.06		
	Cross Roads		1	80.00	5.00	0.025	10.00		
			1	75.00	5.00	0.025	9.38		
			1	85.00	5.00	0.025	10.63		
	Dhobi Ghat Road		1	150.00	5.00	0.025	18.75		
	Cross Road		1	60.00	6.00	0.025	9.00		
							92.81	8829.00	**819442.00**
	Basic Rate	8175.00							
	Area Weightage @ 8%	654.00							
	Total	**8829.00**							
16	Lead for Disposal of Debris shall be payable at carriage rates by Mechanical means inlcuding loading and unloading. From 0.00 to 2.00 Km (Page No.123)	Cum							
			Vide Item No. 1				**607.46**	72.71	**44165.00**
	Average weight of earth 1.28 tonne / kg for 2X1.28X2.00=5.12	5.12							
	Add loading and unloading Vide item no.17.1 P.no.141	62.20							
		67.32							
	Area Weightage @ 8%	5.39							
	Total	**72.71**							
17	Miscellaneous and other Charges	**L/S**							**1232.00**
								Total	**2000000.00**

(Rs. Twenty Lakhs Only)

CERTIFICATE:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per P.W.D S.R of 2012-13.
3 This work included under 2012-13 POW Grant.
4 The provisions were made in this estimate are necessary and adequate.
5 This works come under B.B.M.P. limits.

Assistant Engineer

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidyaranyapura Sub Division

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

ADMINISTRATIVELY SANCTIONED FOR Rs.
Rupees Twenty lakh only
Under POS-2012-13
P:1271
Registered as EE( ) No. 3...9...
Subject to conditions contained in
enclosed memo EE( ) No. 759 /9/...
Dt. 2.1.13 Estimate A/Sanctioned
JC Alr No. 759/12-13
Dated 7.1.13 Rs. 20.00 lakh

for Rs. 20.00 lakh
Twenty lakh only
under POS 2012-13
P:1271
registered as EE No: 392 /12-13 Subject to conditions contained enclosed memo.
No: 392 /12-13 Dr. 10.1.13

AE/JE

EE (BTP. Div.)
10/1/13

Joint Commissioner
(Yelahanka Zone)